INCH-POUND

MIL-PRF-15733/63A
26 September 2003
SUPERSEDING
MIL-PRF-15733/63
12 November 1976

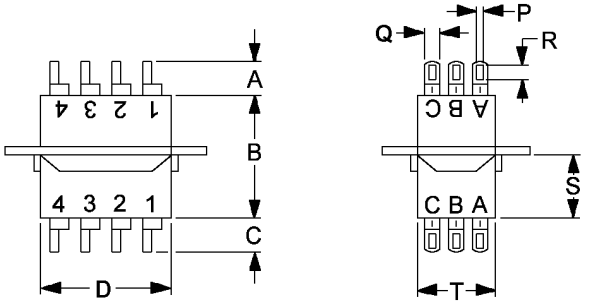
PERFORMANCE SPECIFICATION SHEET

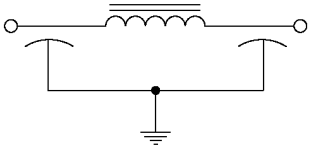
FILTERS, RADIO FREQUENCY INTERFERENCE,
STYLE FL37

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

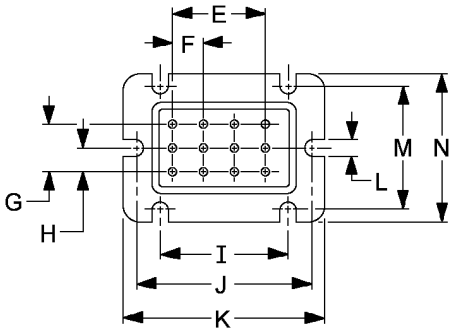
MIL-PRF-15733/63 is inactive for new design after 26 September 2003.

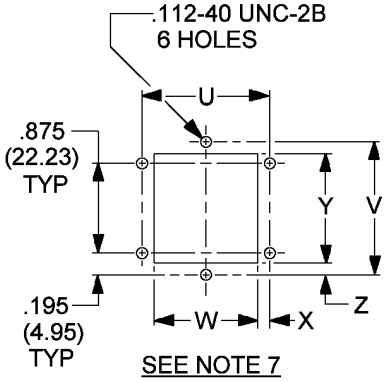
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-PRF-15733.





TYPICAL CIRCUIT
DIAGRAM





SEE NOTE 7

Filter dimensions.

Dash number	A		B		C		D	E	F	G	H	I	J	K	
	Min	Max	Min	Max	Min	Max	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Min	Max
0001	.250 (6.35)	.312 (7.92)	1.093 (27.76)	1.157 (29.39)	.250 (6.35)	.312 (7.92)	.975 (24.77)	.656 (16.66)	.219 (5.56)	.418 (10.62)	.209 (5.31)	.875 (22.23)	1.250 (31.75)	1.422 (36.12)	1.452 (36.88)

Filter dimensions - Continued.

L		M	N		P	Q	R	S		T	U	V	W		X	Y		Z
Min	Max	Typ.	Min	Max	Typ.	Typ.	Typ.	Min	Max	Typ.	Typ.	Typ.	Min	Max	Typ.	Min	Max.	Typ.
.125 (3.18)	.135 (3.43)	1.00 (25.40)	1.172 (29.77)	1.202 (30.53)	.055 (1.40)	.100 (2.54)	.120 (3.05)	.562 (14.27)	.626 (15.90)	.710 (18.03)	1.010 (25.65)	1.265 (32.13)	.838 (21.29)	.848 (21.54)	.083 (2.11)	1.104 (28.04)	1.114 (28.30)	.078 (1.98)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Item consists of twelve identical filter sections.
5. Circuit diagram for information only.
6. Case is ground terminal.
7. Suggested mounting hole size and location for reference only.
8. Terminal identification shall be in accordance with figure above.

FIGURE 1. Dimensions and configuration (continued).

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: .1092 pounds (49.5 grams), maximum.

Case: Metal. Pure tin finish is prohibited.

Terminals: Solderable. Pure tin finish is prohibited.

Operating temperature range: -55°C to +125°C.

Rated voltage: 350 V dc or 250 V rms, to 400 Hz over the operating temperature range.

Rated current: 10 amperes, dc or ac (rms).

Seal: Not applicable.

Capacitance to ground: In accordance with MIL-PRF-15733.

Measured capacitance shall be at least 5,000 pF.

Temperature rise: 25°C maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733. The following detail shall apply:

Test voltage applied for 1 to 5 seconds: 1,050 V dc.

Barometric pressure (reduced): In accordance with MIL-PRF-15733 and Method 105, MIL-STD-202; test condition D.

Insulation resistance: In accordance with MIL-PRF-15733. The insulation resistance measured at 25°C between either terminal and the case shall be at least 10 Gohms.

Voltage drop: Not applicable.

Insertion loss: In accordance with MIL-PRF-15733 and table I.

Overload: In accordance with MIL-PRF-15733. The following exception shall apply:

Measurements at +25°C after test:

Insulation resistance only shall be measured and shall meet initial requirements.

Terminal strength: In accordance with MIL-PRF-15733 and Method 211, MIL-STD-202; test condition A.

Applied force: 5 pounds.

Salt atmosphere (corrosion): In accordance with MIL-PRF-15733 and Method 101, MIL-STD-202; test condition B.

Thermal shock and immersion: In accordance with MIL-PRF-15733. The following exception shall apply:

Measurements after final cycle:

Insulation resistance shall be not less than 1 Gohm.

Shock (specified pulse): In accordance with MIL-PRF-15733 and Method 213, MIL-STD-202; test condition I.

Vibration, high frequency: In accordance with MIL-PRF-15733 and Method 204, MIL-STD-202; test condition D.

Moisture resistance: In accordance with MIL-PRF-15733. The following exception shall apply:

Insulation resistance shall be not less than 1 Gohm after the 24-hour drying period.

Life: In accordance with MIL-PRF-15733 and Method 108, MIL-STD-202; test condition D. The following exception shall apply:

Insulation resistance shall be not less than 1 Gohm after the test.

TABLE I. Insertion loss versus frequency.

Dash number	Minimum insertion loss (dB) at +25°C				
	50 MHz	100 MHz	200 MHz	500 MHz	1-10 GHz
0001	50	65	65	65	70

Qualification inspection: Qualification inspection is not applicable to this document.

Conformance inspection: Group A inspection only shall be performed. This does not relieve the product from conforming to the group C requirements.

Part or Identifying Number (PIN): M15733/63-0001.

Supersession data: Filters in this specification supersedes filters in MIL-F-15733/32(USAF) as follows:

MIL-F-15733/32(USAF) PIN	MIL-PRF-15733/63 PIN
M15733/32-0001	M15733/63-0001

NOTES:

Referenced documents. In addition to MIL-PRF-15733, this specification sheet references the following documents.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-202 Test Method Standard, Electronic and Electrical Component Parts

(Government documents are available on line at http://assist.daps.dla.mil/quicksearch or www.dodssp.daps.mil or from the Standardization Document Order Desk, 700 Robbins Avenue 4D, Philadelphia, PA 19111-5094).

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-0439)

Review activities:
Army – AT, AV, MI
Navy - AS, CG, MC, OS, SH
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at www.dodssp.daps.mil.